

ABSTRACT

There are provided a compound for treatment or prevention of brain injury caused by diseases such as cerebrovascular disorder, brain degenerative disease and demyelinating disease and a method for screening the same.

Brain injury in which prostaglandin D₂ is participated is treated or prevented by inhibition of hematopoietic prostaglandin D synthase induced in microglia cell or macrophage of brain injury area by diseases such as cerebrovascular disorder, brain degenerative disease or demyelinating disease or by inhibition of activation of prostaglandin D receptor expressed in astroglia cell around the injured area. There is also provided a method of testing those pharmaceutical substances using a transgenic mouse in which human hematopoietic prostaglandin D synthase is expressed in large amounts.